| Inde | ex of C | Haims |  |
|------|---------|-------|--|
|      |         |       |  |

| Application No.    | Applicant(s)     |  |
|--------------------|------------------|--|
| 09/731,836         | WRENCH, EDWIN H. |  |
| Examiner           | Art Unit         |  |
| Courtney D. Fields | 2137             |  |

| Rejected | _ | (Through numeral)<br>Cancelled |
|----------|---|--------------------------------|
| Allowed  | + | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| ı | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

| Cla             | aim      |          |          |                     |          | Date     | •      |          |          |       | CI       | aim      |  |         | (        | Date     |         |                    |       | Г        | Claim    | Т            |          |                 |          | Date     | <del></del> |         |  | ٦        |
|-----------------|----------|----------|----------|---------------------|----------|----------|--------|----------|----------|-------|----------|----------|--|---------|----------|----------|---------|--------------------|-------|----------|----------|--------------|----------|-----------------|----------|----------|-------------|---------|--|----------|
|                 | -        | 99       | 02       | П                   |          |          |        |          |          |       |          | -        | П  |         |          |          |         | $\Box$             |       |          | $\neg$   |              |          |                 |          |          |             |         | Т  | ٦        |
| Final           | Original | 119      | 01       |                     |          |          |        |          |          |       | Final    | Original |  |         |          |          |         |                    |       | Fin      | Original |              | 1        |                 |          |          |             |         |  | ı        |
| j të            | ij       | 04       | 05       |                     |          |          |        |          |          |       | Œ        | Ĕ,       |  | 1       |          |          |         | 1 1                |       | 🗓        | ી હૈં    |              | 1        |                 |          |          |             |         |  |          |
|                 | U        | י ד      | כט       |                     |          |          |        | }        |          |       | <u> </u> | L        |  | 1       |          |          | ł       |                    |       | ļ        | 10       |              |          |                 |          |          |             |         |  |          |
|                 | ٦-       | 1        | V        |                     |          |          |        |          |          |       |          | 51       |  |         |          |          |         | $\Box$             |       |          | 101      | Т            | П        |                 |          |          |             |         | T  | ٦        |
|                 | 2        | 1        | 1        |                     |          |          |        |          |          |       |          | 52       | $\Gamma$   |         |          |          |         |                    |       |          | 102      |              | П        |                 |          |          |             | $\neg$  | T  | ٦        |
|                 | 3        | 1        | 1        |                     |          |          |        |          |          |       |          | 53       |  | Т       | Π        |          |         | П                  |       | Г        | 103      | Т            |          |                 |          |          |             | $\Box$  | ヿ  |          |
|                 | 4        | 1        | 7        |                     |          |          |        |          |          |       |          | 54       | $\prod$  |         |          |          |         | П                  |       | Г        | 104      |              |          |                 |          |          |             |         | $\neg$   |          |
|                 | 5        | ٧        | J        |                     |          |          |        |          |          |       |          | 55       |  |         |          |          |         | $\Gamma \Gamma$    |       |          | 105      | П            | П        |                 |          |          |             |         | $\top$   |          |
|                 | 6        | 1        | J,       |                     |          |          |        |          |          |       |          | 56       |  |         |          |          |         |                    |       |          | 106      |              |          |                 |          |          |             |         | $\neg$   | П        |
|                 | 7        | ٧        | V        | Ш                   |          |          |        |          |          |       |          | 57       |  |         |          |          |         |                    |       |          | 107      |              |          |                 |          |          |             |         | $\Box$   | $\Box$   |
|                 | 8        | 1        | V        |                     |          |          |        |          |          |       | <u></u>  | 58       |  |         |          |          |         |                    |       |          | 108      |              |          |                 |          |          |             |         | П  |          |
|                 | 9        | √        | V.       | Ш                   |          |          |        |          |          |       |          | 59       |  |         | L        |          |         |                    |       |          | 109      |              |          |                 |          |          |             |         | I  |          |
|                 | 10       | 1        | U        | Ш                   | [        |          |        |          |          | _ ::: |          | 60       |  |         |          |          |         |                    |       |          | 110      |              |          |                 |          |          |             |         | $\Box$   | ٦        |
|                 | 11       | 1        | V        | $\coprod$           |          | $\Box$   |        |          |          | _     |          | 61       |  |         |          | $\Box$   |         | $\prod$            |       | 匚        | 111      | L            |          |                 |          |          |             |         |  |          |
|                 | 12       | 1        | 1        | Ш                   |          |          |        |          |          | _     | <u> </u> | 62       | $\Box$   | $\perp$ | تــــا   |          |         |                    | _     |          | 112      | $\Box$       |          |                 |          |          |             | $\Box$  | J  | ╝        |
| $\Box$          | 13       |          | V,       | Ш                   |          |          | $\Box$ |          |          | _     | <u> </u> | 63       | $oldsymbol{oldsymbol{oldsymbol{\sqcup}}}$        |         | $\Box$   | $\Box$   |         |                    | _     |          | 113      | L            | LJ       |                 |          |          |             | $\Box$  | $\Box$   |          |
|                 | 14       | 1        | J        |                     |          |          |        | $\sqcup$ |          | _     | <u> </u> | 64       | $\sqcup \bot$                                    | ᆚ       | Ш        | $\sqcup$ | _ _     | 1_[                |       | _        | 114      | 1_           |          |                 |          |          |             |         | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{I}}}$ | $\Box$   |
|                 | 15       | 1        | J        | Ц                   | _        | Щ        |        |          | _        | _ ::  | <u> </u> | 65       | $\sqcup$   | $\perp$ |          | $\Box$   |         | $\perp \perp$      | _ ::: | _        | 115      | _            | Ш        |                 |          |          |             |         | $\perp$  |          |
| لبل             | 16       | 1        | V        |                     |          |          |        |          | _ _      | _     | L        | 66       | Ш.   |         |          |          |         | ot                 | _     |          | 116      |              |          |                 |          |          |             | $\Box$  | $\perp$  |          |
|                 | 17       | 1        | V        | Ш                   |          | ╚        |        | Ш        |          | _     | <u> </u> | 67       | $\coprod$  |         | $\Box$   | $\sqcup$ | $\perp$ | 1                  | _     | _        | 117      | L            | Ш        |                 |          |          |             | $\Box$  | $\Box$   |          |
|                 | 18       | 1        | V        | Ш                   |          | Ц        |        |          |          | _     | <u> </u> | 68       | $\perp \perp$                                    |         | Ш        |          |         |                    |       |          | 118      | _            | Ш        |                 |          |          |             |         |  |          |
|                 | 19       | 1        | V        | Ц                   | _        |          |        |          |          | _     | <u></u>  | 69       |  |         |          |          |         | $\sqcup$           | _     |          | 119      | L            | Ш        |                 |          |          |             |         |  |          |
|                 | 20       | 1        | V        | Ш                   | ᆜ        |          |        |          | $\bot$   |       | <u></u>  | 70       |  | ┸       | Ш        | Ц        |         | Ш                  | _     |          | 120      |              |          |                 |          |          |             |         | $oldsymbol{\perp}$                             |          |
|                 | 21       | 1        | V        | Ш                   | _        | Ц        |        |          | $\perp$  | _     |          | 71       |  |         |          |          | $\perp$ |                    | _     |          | 121      |              |          |                 |          |          |             | $\Box$  | $\perp$  |          |
|                 | 22       | 1        | V        | Ш                   | _        | Ц        |        |          |          | _:::  | <u> </u> | 72       | Ш  |         | Ш        |          | 丄       |                    | _ ::: | L_       | 122      | <u> </u>     |          |                 |          |          |             | ·       | $\perp$  |          |
|                 | 23       | 1        | V        | Ш                   | _        |          |        |          | _ _      |       | <u> </u> | 73       |  |         | Ш        |          |         |                    | _     | L        | 123      | _            |          |                 |          |          |             | $\perp$ | $\perp$  |          |
| Ш               | 24       | 4        | 14/      |                     |          |          | _      | _        |          | _ ::: |          | 74       | Ш  |         | Ш        |          |         | $\perp \downarrow$ | _ ::: |          | 124      | <u> </u>     | Ш        |                 |          |          |             | $\perp$ | $\dashv$                                       | _        |
|                 | 25       | 1        | V        |                     |          | Ц        |        | 4        | _        | _     |          | 75       | $\Box$   | Д.,     | $\perp$  |          |         | $\perp \perp$      |       | L        | 125      | _            |          |                 |          |          |             | _       | $\bot$   | ╝        |
|                 | 26       | 1        | V        | Ц                   | _        | Ц        |        | _        |          | _     | <u></u>  | 76       |  |         | $\perp$  |          |         | $\bot \bot$        | _     |          | 126      | 丄            |          |                 |          |          |             | _       | $\perp$  | ╝        |
|                 | 27       | 1        | J        | Ш                   |          | Ц        |        | _        | _        | _     | L_       | 77       | $\sqcup$   | _       | $\perp$  |          | _       | $\sqcup$           | _     | _        | 127      | ↓_           | L        |                 |          |          |             | _       | _  | ┙        |
| $\square$       | 28       | 1        | J,       |                     | _        |          |        |          |          | _::   | <u> </u> | 78       | ш  | _       | $\perp$  | $\dashv$ |         | $\perp$            | _     | L        | 128      | 1            | Ш        |                 |          |          |             | _       | _  | _        |
| $\Box$          | 29       | 1        | V        | $\sqcup$            |          |          |        |          | $\dashv$ | 4:::  | <u> </u> | 79       |  | _       | $\perp$  |          |         | 1_1                |       | <u></u>  | 129      | ┺            | Ш        |                 |          |          |             | _       | $\dashv$                                       | ᆜ        |
|                 | 30       | Ý        | 1        | Щ                   | _        | Щ        |        | _        | $\dashv$ | _     | <u> </u> | 80       | $\sqcup$   | Ц.,     | $\perp$  |          | - -     | ++                 | _ ::: | <u> </u> | 130      | ╄-           | Ш        |                 |          |          | $\Box$      |         | 4  | ᅬ        |
|                 | 31       | 1        | V        | Ш                   |          |          | _      | _        | _        | 4     |          | 81       | Ш  | _       | $\perp$  | _        | -       | $\sqcup$           | 4:::  | <u>_</u> | 131      | <u> </u>     | Ш        | Ш               | Ш        | _        |             | _       |  | ᆚ        |
| Ш               | 32       | 1        | V,       | Ц                   | _        | Ш        | _      | _        |          | 40.   |          | 82       | <b>├</b>   |         | <u> </u> | _        |         | $\sqcup$           |       | 匚        | 132      | $\perp$      | Ш        |                 |          |          | _           | _       | _  | _        |
| <u> </u>        | 33       | 1        | V        | $\sqcup$            | _        | $\sqcup$ | _      | _        | $\bot$   | 4     | <u> </u> | 83       | $\sqcup$   | $\bot$  | $\perp$  | $\sqcup$ | -       | +                  | _     | <u> </u> | 133      | 1            | Ш        | Щ               | Щ        | Ц        |             | _       | 4  | _        |
| <b>  </b>       | 34       | 1        | 1        | Щ                   | _        |          | 4      | 4        | +        | 4::   |          | 84       | ╁╌┼  | - -     | Ш        | $\dashv$ | _       | +                  | 4:::  | <u> </u> | 134      | ـ            | Ш        | Ш               |          | $\Box$   | $\Box$      | _       | $\dashv$                                       | _        |
| $\vdash \vdash$ | 35       | 1        | ۷        | $\vdash$            | _        | _        |        |          | -        | - ::: | <u> </u> | 85       | $\vdash$   | +       | Н        | $\sqcup$ | 4-      | ╁╌┼                |       | <u> </u> | 135      | ╄            | Ш        | Ш               | Ш        | _        |             | 4       | _  | $\dashv$ |
| $\sqcup$        | 36       | 1        | 1        | ${oxed}$            | 4        |          |        |          |          | - ::  | <b> </b> | 86       | <b>├</b> ─├                                      |         | $\vdash$ |          | _       | +-+                | 4     | Ь_       | 136      | ╄            |          | <b>  </b>       |          |          |             | _       | $\dashv$                                       | 4        |
| $\vdash$        | 37       | <u> </u> |          | $\vdash$            | _        | $\dashv$ |        |          | -        | 4:::  | <u> </u> | 87       | ₽  | +       | $\sqcup$ | $\dashv$ | +       | ++                 | 4     | ├        | 137      | ╄            | Ш        | Ш               | $\Box$   | _        |             | 4       | $\dashv$                                       | 凵        |
| $\sqcup$        | 38       | <u> </u> | L        | $\sqcup$            | _        |          |        |          | $\dashv$ | - ::  | ļ        | 88       | $\vdash \downarrow$                              |         | $\sqcup$ | -        | - -     | +                  | _     | <u> </u> | 138      | ـ            |          | $\square$       |          |          |             | _       | $\dashv$                                       | 4        |
| $\vdash \vdash$ | 39       | -        | $\vdash$ | Н                   | _        | _        | _      | 4        | +        | - ::: | ļ        | 89       | <b>├</b> ├                                       |         | $\sqcup$ | $\dashv$ | _       | +                  | 4     | <u> </u> | 139      | $\vdash$     | Ш        | Ш               | $\Box$   | _        | $\Box$      | _       | _  | _        |
| $\vdash$        | 40       | <u> </u> | <b> </b> | Н                   | 4        |          | -      |          | _        | - ::: | <b> </b> | 90       | $\vdash$   | -       | $\sqcup$ | _        | -       | +                  |       | <u> </u> | 140      | <b> </b>     | Ш        | Ш               |          |          | _           | 4       | _  | ᅬ        |
| $\vdash$        | 41       | ļ        | _        | $\sqcup$            | 4        | $\sqcup$ | _      | _        |          | 4     | <u> </u> | 91       | $\sqcup$   | +       |          | $\dashv$ | -       | <del>↓ ↓</del>     | -4    | <u> </u> | 141      | <del> </del> | $\sqcup$ | Щ               |          | _        | $\dashv$    | _       | $\dashv$                                       | $\dashv$ |
| $\vdash \vdash$ | 42       | <u> </u> |          | $\vdash \vdash$     | _        | $\dashv$ |        |          |          | - ::: |          | 92       | <del>                                     </del> |         | $\vdash$ | $\dashv$ |         | ╁┷╁                | 4     | <u> </u> | 142      | <del> </del> |          |                 |          |          | $\sqcup$    | _       | $\dashv$                                       | $\dashv$ |
| igsquare        | 43       | $\vdash$ | $\vdash$ | dash                | 4        | $\dashv$ | -      | 4        |          | 4:::  |          | 93       | ₩.   | -       | $\sqcup$ | -        | +       | ╂┷┼                | -     | <u> </u> | 143      | 1            | Ш        | $\square$       |          | _        | _           |         | 4  | _        |
| $\vdash$        | 44       | <u> </u> | $\vdash$ | Н                   |          | $\dashv$ |        |          |          | - ::: |          | 94       |  |         | $\vdash$ | -        | +       | +                  |       | ├        | 144      | +-           | $\sqcup$ | $\vdash \vdash$ |          | _        |             | -       | $\dashv$                                       | ᅬ        |
| $\vdash$        | 45       | <u> </u> | $\vdash$ | Н                   | 4        |          |        |          |          | 4     | <u> </u> | 95       | $\vdash$   | +       | $\vdash$ | $\dashv$ | +       | +-+                |       | <u> </u> | 145      | ₩            | $\vdash$ | $\vdash$        | $\vdash$ | _        | _           | -4      | _  | ᅬ        |
|                 | 46       | <u> </u> | <u> </u> | $\vdash \vdash$     | -        | $\dashv$ | -      | -        | +        | - ::: | <u> </u> | 96       | ₩  | +       | $\vdash$ | $\dashv$ | +-      | ┯                  |       | ⊢        | 146      | ₩            | $\sqcup$ | Н               | $\sqcup$ | _        | 4           |         | +  | ᅬ        |
|                 | 47       | Н        | ├        | $\sqcup$            | 4        | _        |        |          | -        | - ::: |          | 97       | <b>├</b> -┼-                                     |         | Н        | -        | -       | +                  | - ::: | <u> </u> | 147      | ╁—           | $\sqcup$ |                 |          | 4        | _           | -       | 4  | ᅬ        |
|                 | 48       | <u> </u> | <b>!</b> | $\vdash \downarrow$ |          | -        | -      | -        | -        | - ::: |          | 98       | $\vdash \vdash$                                  | +-      | $\vdash$ | $\dashv$ | +       | <del> </del>       |       | <u> </u> | 148      | ┼            | $\vdash$ | Ш               | $\dashv$ | _        | _           |         | $\dashv$                                       | 4        |
|                 | 49       |          |          | $\vdash$            | $\dashv$ |          | -      | -        |          | 4:::  |          | 99       | $\vdash \vdash$                                  | +       | $\vdash$ | -+       |         | +                  | -     | <u> </u> | 149      | ┼-           |          | $\vdash$        |          | $\dashv$ | _           | -+      | $\dashv$                                       | 4        |
| L               | 50       |          | L., 1    | $\sqcup \bot$       |          |          |        |          | - 1      | :::   | ·L       | 100      |  | - 1     | 1 1      |          | - 1     | 1                  | 100   | ı        | 150      | 1            | ıl       |                 |          |          |             | - 1     |  | - 1      |